JSC team effort results in software honorable mention

Gastric Function.

Tech Brief Awards also were given to Keith Brown of the Business and Information Systems Directorate for Windows Controlled Ecological Life Support System Simulator and Arne Aamodt of Mission Operations for the Payload Changeout Room Relative Height Monitor.

Patent Application awards also were handed out to several Engineering Directorate employees including Dickey Arndt for Microwave Treatment for Cardiac Arrhythmias and Particle Velocity Measuring; Charles Verostko for Fiber-Optic Chemiluminescent Biosensors for Monitoring Aqueous Alcohols and Other Water Quality Parameters; Richard

Improved Spatial Light Modulation and the Method and Apparatus for Modulating Light Using Spatial Light Modulators; James Akkerman, Gregory Aber and Richard Bozeman for the Rotary Blood Pump; Bozeman for the Accelerometer Method and Apparatus for Integral Display and Control Functions; Gregory Aber for the Blood Pump Bearing System; William Schneider for the Method and Apparatus for Coupling Space Vehicles; and David Altemir for the Micromechanical Oscillating Mass Balance.

Patent Application awards also went to Space and Life Sciences' Victor Whitehead for the Polarization Perception Tool and Lakshmi Putcha for the Preservation of

Flight Crew Operations' David Wolf shared honors with Thomas Goodwin of Life Sciences for a Method for Producing Non-Neoplastic, Three-Dimensional Mammalian Tissue and Cell Aggregates under Microgravity Culture Conditions and the Products Produced Therefrom. Goodwin also was honored for his Recombinant Protein Production and Insect Cell Culture and Process.

A Software Author Award went to Keith Brown of the Business and Information Systems Directorate for Windows Controlled Ecological Life Support System Simulator.

Space Act Board Awards were given to Goodwin for the Recombinant Protein Production and Insect Cell Culture and Process;

Engineering's Edward Chimenti, Carlos Ortiz-Longo, Steven Rickman and Robert Vogt for the Thermal Synthesizer System; Dickey Arndt and Thanh Nguyen for the Capacitance Probe for Fluid Flow and Volume; Alice Lee of the Safety Reliability and Quality Assurance Directorate for a Quantitative Software Risk Assessment Tool; and Joel Stoltzfus of White Sand Test Facility for the Method and Apparatus for Production of Powders.

In addition, Huyen-Anh Ly and Lui Wang of the Business and Information Systems Directorate and Anthony Griffith of Mission Operations received an honorable mention for the Software of the Year Award for the Electronic Documentation Project.

Information systems helping to ease area code transition

(Continued from page 1)

have until May 3 before the 713 area code is eliminated outside Houston's outer loop. During this transition, a phone in the new 281 area can be reached by dialing either the 713 or 281 area code. Local calls to numbers within the 281 and 713 areas will be accessible by dialing the seven-digit number. Beginning May 3, the 10-digit number will be required when calling across the 281/713 area code boundary.

Long distance toll calls to JSC can be made using either the 713 or 281 area code until May 1997. After May 3, the only way to reach a JSC phone from outside the 281 area will be to use the 281 area code.

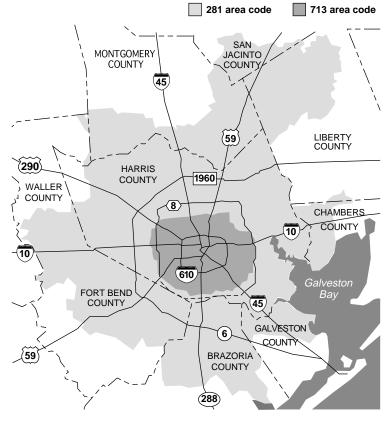
After the transition period, employees still will be able to call numbers in the 713 area code without paying long distance charges and without placing a one before the 10-digit number. The emergency number will remain 911 in Houston and the surrounding community and x33333 at JSC. Directory assistance will continue to be 1411.

In general, most calls that were dialed as non-toll will continue to be non-toll, but new dialing procedures will mandate calls to some locations be dialed as toll calls.

'Calls to Baytown and Alvin exchanges must be dialed as a toll call and will require dialing a 1," White said. "Calls from JSC to 713 area code numbers will not be toll calls."

White said that employees can begin now to prepare for the new area code.

The Business and Information Systems Directorate is taking action to correct after-hour recorded messages and system speed numbers.



A user at JSC (including Ellington Field) calling:

On-site to On-site No	change	5 digits	37123
On-site to Off-site (non-toll) Call	s to 281	8 digits	9 + 574-1234
Call	s to 713	11 digits	9 + (713) 876-9876
On-site to Off-site (toll) No	change	11 digits	9 + 1+ (ac) + 7 digits
Off-site to On-site Call	s from 281	7 digits	483-0123
Call	s from 713	10 digits	(281) 483-0123
g p	s to 281	10 digits	(281) 574-1234
(with a 713 area code) Call	s to 713	7 digits	876-9876
Calling a pager		11 digits	9 + (713) 891-xxxx key in 10 digits

Embry-Riddle Aeronautical University to brief employees about campus, registration

Staff members from Embry-Riddle additional information on the pro-Aeronautical University will be at Ellington Field next week to brief employees on enrollment procedures for their satellite campus.

ERAU personnel will be available from 4-6 p.m. Tuesday and from 9 a.m.-1 p.m. Wednesday in the Bldg. 273 conference room to provide students and prospective students with counseling and general information needed to successfully enroll in the extended campus classes to be held at Ellington Field in January.

Employees that already have signed an intent to attend classes or other employees who would like gram are encouraged to attend.

Prior aviation training and experience are prerequisites for this program. ERAU will determine if training and experience will qualify for academic credit. Although these degrees will not qualify for professional engineering positions at JSC, they will provide a training opportunity for the JSC community.

Students who do not have a NASA badge must check in at the NASA security gate near the south entrance of Ellington Field. For more information call Mike Radmonovich at 244-9676.

Space Congress calls for technical papers

The 34th Space Congress is failures of programs or events that seeking technical papers that focus on cooperation to expand the exploration of space.

The theme for this year's Congress is "Our Space Future-Uniting For Success," and will be held April 29-May 2 in Cocoa Beach, Fla. Panel sessions and paper presentations will address how the combined efforts of the scientific, commercial, military and educational communities contribute to the knowledge and understanding of space. Panel sessions will focus on "Space Successes and Failures," "Uniting For Success" and "Our Space Future."

Three different technical papers sessions will carry specific themes with each sessions discussing each of the four disciplines the Congress is focusing on-commercial, scientific, military and education. The first session will deal with success and

enabled advances in the ability to gain access to space. The next session will focus on how uniting these four communities will better human life and the world. The final session will deal with spacecraft systems, technology and business practices that will establish the future in space.

Employees interested in submitting technical papers for consideration must submit a 200-word abstract no later than Monday. Abstracts should contain the session the paper fits, professional affiliation, return address, e-mail address, fax and telephone numbers. Individuals will be notified by mid-November if their paper is chosen. For details call William Holden at 407-867-9259. Papers may be mailed, faxed or emailed. Fax papers to 407-867-9259 or E-mail to William. Holden-

Shepherd arrives in Star City to begin space station mission training

(Continued from page 1)

what we've been able to learn from our limited conversations with him," Cardena said. "It's been very beneficial for him that while Shannon Lucid was up there he could talk to her, get her feelings and impressions of life aboard the Mir, working in that environment. It's a different way of doing business, a different system, a different culture."

Those who will follow Blaha on Mir and continue the research are undergoing training

in Star City, Russia. Astronaut Jerry Linenger's training is concentrating on Mir payload systems, while Astronaut Mike Foale recently completed his Russian oral exam on the Mir's life support systems. Astronauts Wendy Lawrence and David Wolf underwent preliminary physical examinations and continued their Russian language studies, while Astronaut Jim Voss received more instruction on Mir life support systems.

Astronaut Bill Shepherd recently arrived in

Star City to begin training for his 1998 mission to the International Space Station. Shepherd will command the first crew to live and work on board the new station, which the NASA-Mir program is helping to advance, as Mir's science agenda includes testing materials and equipment planned for the International Space Station. Linenger recently discussed the purpose of these risk mitigation experiments.

"We build a new piece of gear, we send it up to this platform, the Mir space station, we

look at how it operates up there, and just like anything it improves when you tweak it a little bit," Linenger said. "So we'll be up there tweaking a lot of the electronic gear, a lot of these experiments.... We'll check out how that equipment works, we'll bring it back on shuttle missions, we'll take a look at it, we'll improve it, and by the time we get to the International Space Station we should have some second- and third-generation science

ISO 9000 familiarization seminar set

(Continued from page 1) the ISO 9001 requirements.

WSTF's top managers were motivated by the belief that improvements in the quality system would provide even greater payback in product quality and customer satisfaction, McCright said. The management also believed that the hazardous nature of the White Sands activities demanded the most rigorous quality system that they could implement.

JSC managers will have two additional opportunities to attend familiarization classes. The first will be from 8:30-11:30 a.m. Wednesday in the Bldg. 30 auditorium, and from 2-5 p.m. Friday in Bldg. 4S, Rm. 6600. All JSC supervisors and managers who have not

attended previous ISO 9000 classes are expected to attend.

"The White Sands experience provides an excellent foundation for the JSC ISO 9001 certification effort currently underway at the center," said Lee Norbraten, deputy director of the newly formed ISO 9000 Project Office. "We face most of the same issues as our colleagues at White Sands, but on a much grander scale."

McCright said JSC should follow his facility's example and set an ambitious goal for certification, establish a well-defined scope that represents the core business of the organization, use the best and brightest people across the center as the leaders of the implementation effort, establish a centralized control system for a well defined set of documents, provide training opportunities for all employees, establish a strong internal audit process in preparation for a thirdparty registration audit, avoid the reinvention of procedures and work instructions that are already mature and do not underestimate the inherent resistance to change that exists in every organization.

White Sands received its thirdparty registration in October 1995. White Sands became the first ISO 9000 government/contractor partnership. NASA and AlliedSignal Technical Services Corporation employees at WSTF were honored with the Vice President's National Performance Review "Golden Hammer" award.

Space News

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Artifacts to be on display next week

In observance of National Native American Month, the Equal Opportunity Programs Office and representatives from JSC's Native American workforce will display a cultural exhibit Tuesday and Wednesday. The exhibit will be available from 11a.m.-1 p.m. in the Bldg. 3 cafeteria executive dining room.

The exhibit will include pictures of JSC employees who are of Native American heritage and their tribal affiliation. This exhibit will provide an opportunity for all JSC employees to gain an appreciation of the Native American heritage and their contribution to the NASA mission. For more information call Pat Burke at x30606.